

No. Pages: 1

~~TOP SECRET~~

COPY NO.: 49

PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

LENMETALLURGSTROY
LENINGRAD, USSR

[REDACTED]



CONTAINS SENSITIVE
COMPARTMENTED INFORMATION

HTA-M40-57

31 DECEMBER 1957

DOCUMENT NO.
NO CHANGE IN CLASS. ☐
☐ DECLASSIFIED
CLASS. CHANGED TO: TS (S) 62012
NEXT REVIEW DATE:
AUTH: HR 70-2
DATE: 670682 REVIEWER: 063911

WARNING: HANDLE VIA TALENT CONTROL CHANNELS ONLY

CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

This document contains information usable only within the TALENT CONTROL SYSTEM. It is to be seen on a MUST-KNOW BASIS ONLY BY PERSONNEL ESPECIALLY INDOCTRINATED AND AUTHORIZED. Reproduction is prohibited unless approved by the originator.

Declass Review by
NIMA/DOD

~~TOP SECRET~~

TALENT

WARNING

This material contains information affecting the National Defense of the United States within the meaning of the espionage laws, Title 18, USC, Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

LENMETALLURGSTROY



Leningrad, USSR

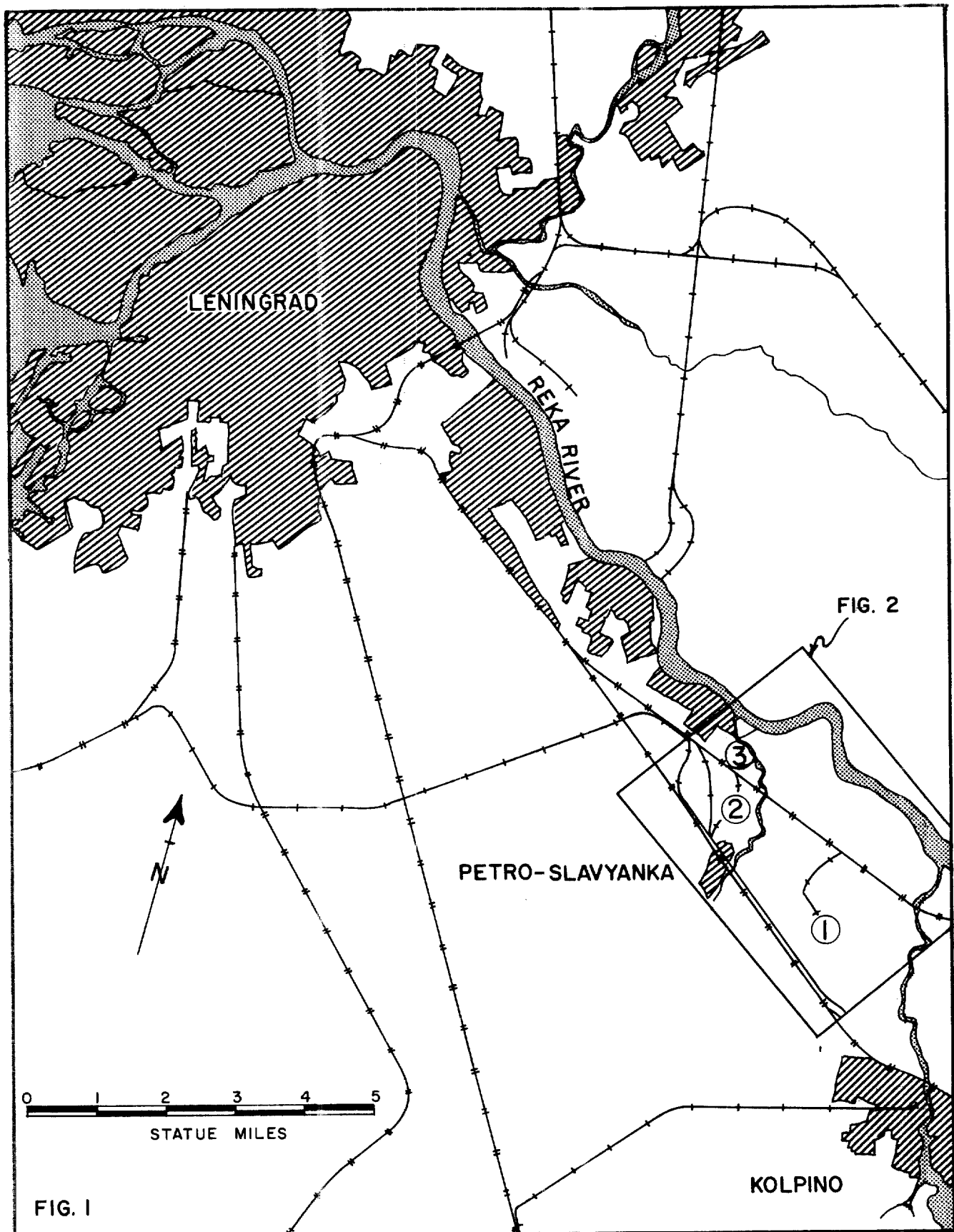
HTA/M-40/57
31 December 1957

TABLE OF CONTENTS

	page no.
I. Introduction	5
II. Main Production Area	9
A. Machine Shop and Assembly Buildings	9
B. Foundry	10
C. Power and Steam Plants	10
D. Personnel and Administrative Facilities	11
III. North Warehouse and Storage Area (North Area)	11
IV. Main Housing Area	14
V. Conclusions	15

LIST OF FIGURES

	page no.
1. Orientation map of Leningrad area	4
2. Plan view of local area	5
3. Plan view of North Warehouse and Storage area	12
4. Plan view of Main Housing area	14
5. Plan view of Main Production area	17
6.  photograph of Lenmetallurgstroy	7
7.  photograph of Lenmetallurgstroy	8

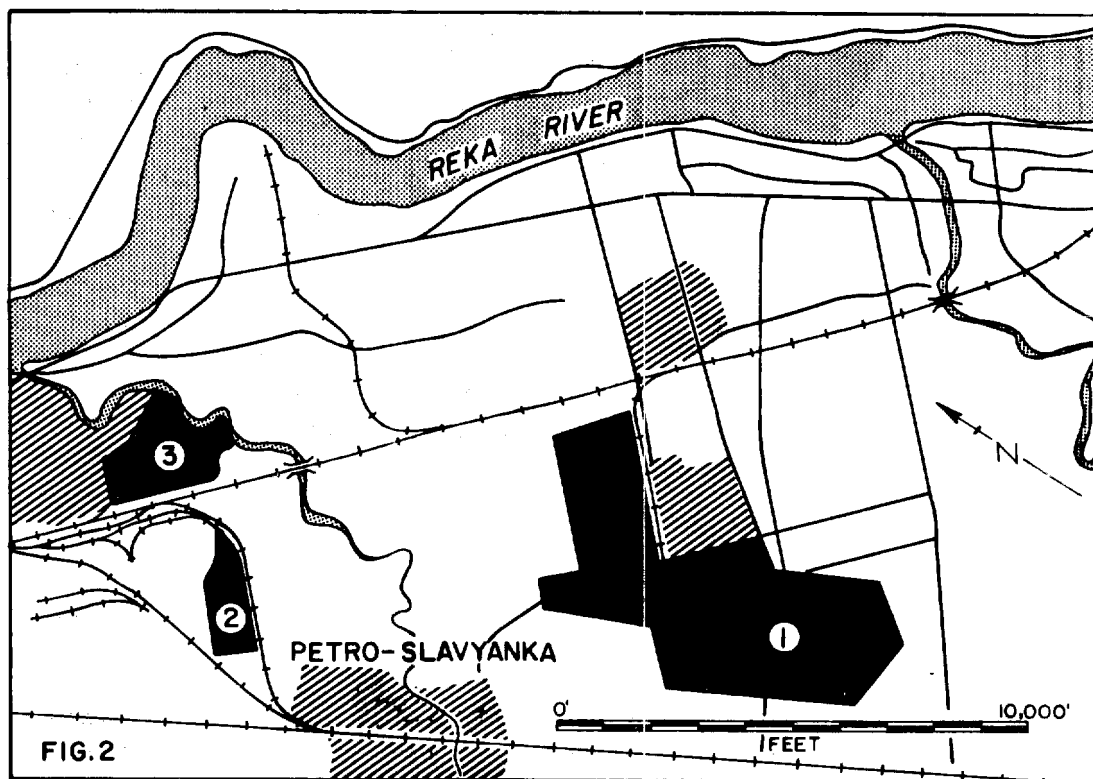


LENMETALLURGSTROY

LENINGRAD, USSR

I. INTRODUCTION

Lenmetallurgstroy is a large industrial installation located 12.8 nautical miles (nm) southeast of Leningrad and 2.7 nm northwest of Kolpino. It lies between the Leningrad-Moscow and Leningrad-Murmansk rail lines (see the map, figure 1). The low, flat terrain upon which the installation is situated is crossed by drainage ditches that empty into the rivers east and west of the plant. Figure 2 is a plan view of the local area, including two nearby plants (2 and 3) whose identity has frequently been confused with Lenmetallurgstroy (1) in observations by rail travelers.



HTA/M-40/57

Interest in Lenmetallurgstroy has been increased by the marked expansion in plant facilities since World War II, by its apparent ability to produce the heaviest types of machinery, and by the possibility that this plant is involved in the Soviet atomic energy program.

25X1D Construction of Lenmetallurgstroy is reported to have begun in 1935. [REDACTED] photography (see figure 6) shows plant facilities consisting of the main machine shop, the isolated separately-fenced machine shop, the foundry, two boilerhouses, and four warehouses. Steel girders, like those used to support overhead cranes, were being erected in the main machine shop, which was under construction. Workers' housing consisted of a compact group of 16 H-shaped buildings north of the production area.

25X1D [REDACTED] photography shows three new buildings in early stages of construction and a fourth nearly finished. Thirty-three single-story, ridge-roofed buildings had also been added adjacent to the rail spur on the west side of the plant. By [REDACTED] all of these buildings and the entire H-shaped housing section had been destroyed by fire as a result of air raids. Though little building construction was evident at that time, repair of damage to main structures was under way.

25X1D [REDACTED] photography (see figure 7) shows Lenmetallurgstroy to be an impressive installation including nine machine-shop-type structures, a power plant, and a steam plant as well as numerous other facilities. Though the postwar rebuilding and expansion program was still in progress in [REDACTED] ground photographs taken in [REDACTED] reveal that expansion of the main production units had apparently been completed by that time. Construction under way in [REDACTED] 25X1D [REDACTED] appears related to increasing personnel services such as training, recreation, and housing, to enlarging administration and storage facilities, and to improving transportation links.

25X1D For purposes of discussion facilities comprising this installation are grouped in the three following areas of activity: (1) the Main Production Area, (2) the North Warehouse and Storage Area, (3) the Main Housing Area.

CONFIDENTIAL

000100010004-5

25X1D LENMETALLURGSTROY

or

A00

00010004-5

CONFIDENTIAL

TOP SECRET CHES

For Release 2001/09/07

4-5

25X1D

LENMETALLURGSTROY

DATE OF PHOTOGRAPHY: [REDACTED]

Release 2001/09/07 : CIA-RDP78T04753A000

TOP SECRET CHES

Plate 7

HTA/M-40/57

II. MAIN PRODUCTION AREA

The Main Production Area, which measures 5400 by 2700 feet over-all, is surrounded by a wall or solid wood fence. Installations within this enclosure can be classified in one of the following categories: machine shops, a foundry, a thermal power plant, a steam plant, personnel and administration facilities, and miscellaneous related and unidentified buildings.

A. Machine Shop and Assembly Buildings

The most important production units of the installation are four machine-shop-type buildings, Q-1, E, L, and M, situated near each other in the west-central part of the Main Production Area (figure 5). Largest of these by far is building Q-1, whose over-all dimensions are 805 by 765 feet. It is served by two rail spurs, at least one of which passes through. Functionally, this building is divided into a single story, monitor-roofed, machine-shop section served by overhead cranes and apparently capable of producing the heaviest types of equipment, and a long rectangular, multistory assembly and office section at the northwest end. The machine shop section of Q-1, which measured [REDACTED] now measures [REDACTED] feet. The assembly and office section was added between [REDACTED] [REDACTED]. An auxiliary shop, Q-2, is rail served and has a 75-foot-high stack. Two other nearby structures, building U and a smaller rectangular structure, also appear to be associated with Q-1.

Buildings E, L, and M, though much smaller than Q-1, are similar in form and function. Construction on these buildings was under way during World War II. With Q-1, these machine-shop buildings have a combined plan area of approximately 1,117,000 square feet. Nearby are buildings D, F-1, and F-2, all of which appear to be used for storage of equipment related to machine-shop operations. Building D is served by four driveways and a rail spur. Building F-2 is road served, and a rail spur which runs parallel to and 65 feet southwest of F-1 and F-2 terminates abreast the south corner of F-2.

The isolated machine shop, building 1-1, figure 3, is one of two major structures that have retained their World War II size and shape. However, ground scars and foundations visible adjacent to this building

HTA/M-40/57

indicate that it is also being expanded. The location of the shop in a separate enclosure indicates a specialized type of operation, possibly testing, experimentation, or research. The name Lenkranstroy is associated with this shop in collateral information. This shop is served by road and rail, which extend into the machine shop and assembly section of the Main Production Area. Two roads also provide access to the Main Housing and North Warehouse and Storage Areas.

B. Foundry

25X1D The foundry, building J, which is situated near the four machine shops, appears the same as on [REDACTED] photography. Three 60-foot-high stacks along the southwest side and six smaller stacks projecting through the roof at the southeast end indicate probable furnaces, three open hearth and six electric, respectively. Powder stain on the roof around a 35-foot-square vent signifies probable sand-blasting operations. Building B, constructed since World War II, is probably associated with the steel-casting facility in the foundry. This building, which is served by a rail spur, has two powder-like stains on the roof. Construction in progress in the area between building B and the foundry suggests an expansion of these facilities. A partially enclosed storage area, C, adjacent to building B, contains one large building and two small structures.

C. Power and Steam Plants

Power for production facilities is apparently supplied solely by a newly constructed thermal power plant, G-2, adjacent to the machine shops. This plant consists of a generator hall and boilerhouse with a single stack approximately 200 feet high, a coal storage area, and covered conveyors. Smoke was issuing from the stack at the time of [REDACTED] photography. The power control and transmission station for the production area may be situated northwest of the power plant in the area designated G-1. Other features in the vicinity of the power plant include a possible freight station midway along the spur track serving G-1, and eight light-toned objects, probably parked vehicles, southwest of the track. There are several small buildings in this area, which appears to be used primarily for miscellaneous open storage.

25X1D

HTA/M-49/57

25X1D The steam plant, northeast of building Q-1, shows little change since [REDACTED]. It consists of two main structures, P-1 and P-4, and two smaller auxiliary structures, P-2 and P-3. This facility also includes a small water reservoir and a 90-foot-high stack. Overhead pipelines extend from this plant to the nearby foundry and to building Q-1.

D. Personnel and Administrative Facilities

25X1D Personnel and administrative facilities, all of which are new since [REDACTED] are located in the Main Production Area, near the main gate. These facilities include a large multistory office building, N-1, a two-winged, hip-roofed office building, I-3, a bus station, I-2, and a building used for storage or as a garage, I-1. Three of these buildings overlook a nearby landscaped mall. Two other buildings, N-2 and N-3, are in early stages of construction.

E. Miscellaneous and Unidentified Installations

East and southeast of Q-1, between the two rail spurs, are nine buildings probably used for storage. Still farther east and southeast, an internal fence surrounds one large building, R-1, and 10 small structures. A very adequate road system and a rail spur serve this enclosure.

In the extreme western corner of the Main Production Area there are three other unidentified buildings, H-1, H-2, and a small square structure. A light-toned area around H-1 indicates probable ground scars caused by vehicular traffic. There is little evidence, however, of any traffic to H-2. The 20-foot-square building is served by a road that joins the main road.

North and northwest of the Personnel and Administrative Facilities there is a fenced area, measuring 1730 by 1000 feet over-all, in which there is construction under way.

III. NORTH WAREHOUSE AND STORAGE AREA (NORTH AREA)

The most significant features of this area, which is located immediately north of the Main Production Area, are two sections containing

Approved For Release 2001/09/07 : CIA-RDP78T04753A000400010004-5

TOP SECRET CHESS

LENMETALLURGSTROY PLANT NORTH AREA

25X1D

25X1B

25X1D

25X1D

25X1B

25X1D

25X1D

25X1D

25X1D

25X1D

25X1D

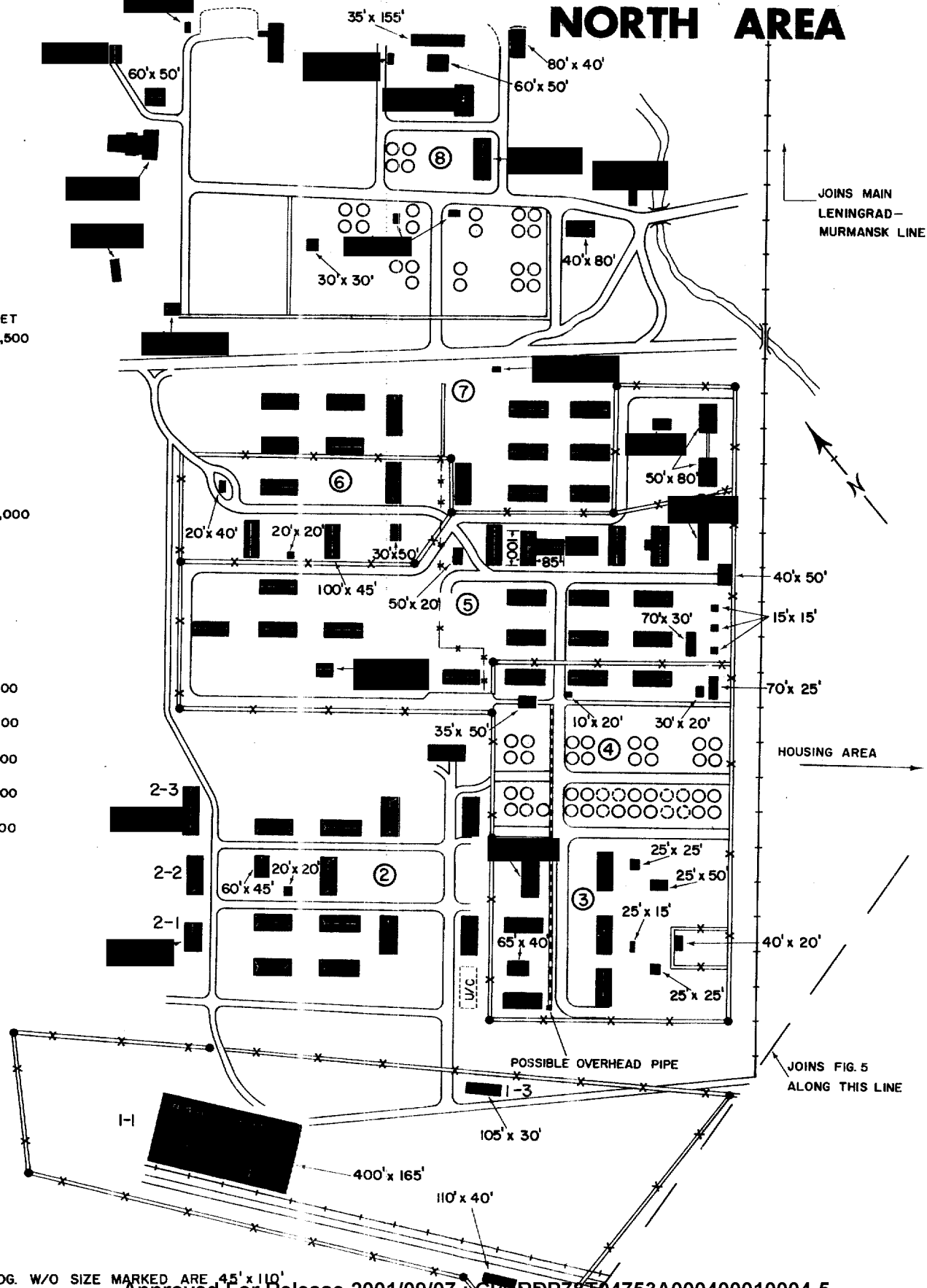
25X1D

25X1D

25X1D

25X1D

25X1D



NOTE: BLDG. W/O SIZE MARKED ARE 45' x 110'

Approved For Release 2001/09/07 : CIA-RDP78T04753A000400010004-5

TOP SECRET CHESS

FIG 3

what may be storage tanks, Also included in this area are warehouses and housing facilities.

25X1D Section 4 (figure 3) includes 34 of these possible storage tanks and Section 8 has 25. Those in Section 4 are estimated to be 25 to 30 feet in diameter and 10 feet high, and they are arranged primarily in groups of four. Their unrevetted condition, dark-toned appearance, and indistinct outline are not typical of oil storage tanks. Several more of these possible storage tanks appear under construction in Section 4. In Section 8, the scattered distribution of those completed together with nearby ground scars suggests the possibility that others may also be planned there. North of the tanks in Section 4 there are three pitch-roofed buildings measuring 110 by 45 feet each, and five smaller structures, one of which is a drive-through building.

Section 3, which is located adjacent to Section 4, contains 12 buildings, the five largest of which are single-story, warehouse-type structures each 110 by 45 feet. A possible overhead pipe 170 feet long extends between Sections 3 and 4 and terminates at the road which serves the drive-through building. The purpose of this pipeline is not evident from the photography. The only access to the separately-fenced area comprising Sections 3 and 4 is by the drive-through building.

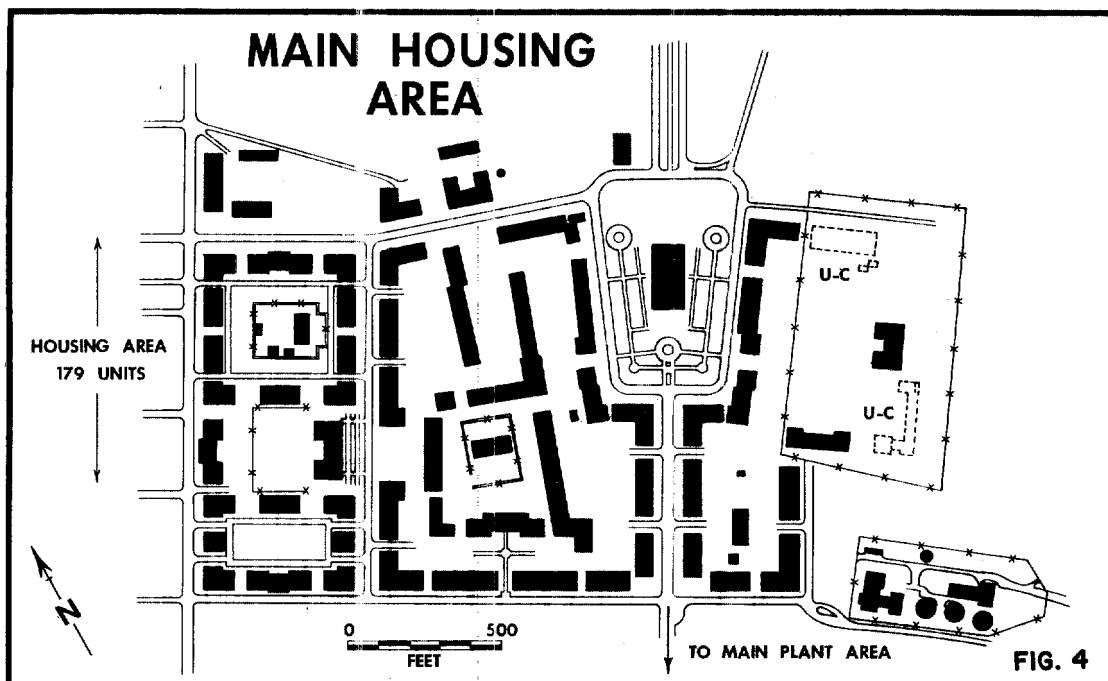
Section 2, which lies outside the perimeter fence, is mainly workers' housing. It includes 10 hip-roofed, barracks-type buildings and several associated structures. Sections 5, 6 and 7, in which a 110 by 45 foot warehouse-type structure predominates, appear to be used primarily for storage purposes.

Additional housing facilities (not shown on accompanying graphics) consisting of 12 barrack-type structures 120 by 45 feet each, and approximately 56 single-family residences located east of the North Warehouse and Storage Area and between the spur track and main road.

IV. MAIN HOUSING AREA

The Main Housing Area (figure 4), located just north of the Leningrad-Murmansk rail lines, consists of modern multistory, apartment-type buildings, approximately 180 single-family residences, a training or recreational facility, and a steam plant. Facilities in this area have been constructed since World War II, and both the apartment-type buildings and the training and recreational field were being expanded at the time of [REDACTED] photography.

25X1D



V. CONCLUSIONS

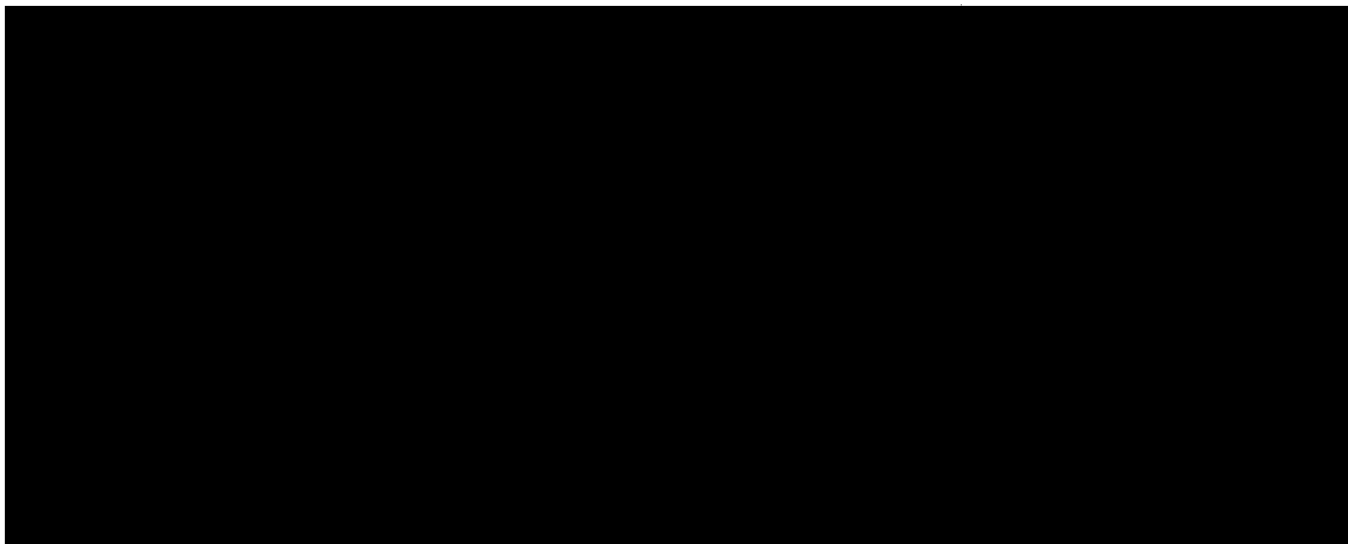
Photography confirms that Lenmetallurgstroy produces steel ingots and manufactures heavy steel castings and heavy machine parts and equipment. These might include components for some aspect of the Soviet atomic energy program. Structural characteristics of the main production units and the lack of a large water supply and water treatment facilities preclude the possibility of fissionable materials being handled in this plant.

HTA/M-40/57

REQUIREMENT:

Prepared in answer to HTA/SI/R79/56 requesting a detailed study of Lenmetallargstrey, including any indications of the function of the plant.

25X1D

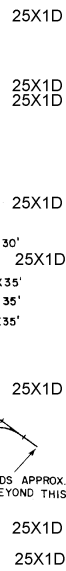


REFERENCES:

ATMP: 0153-9997-12-25MA
0153-9997-500

COORDINATES: 59° 47'N, 30° 35'E

**LENMETALLURGSTROY PLANT
MAIN PRODUCTION AREA**



T
A
L
L
E
N
T